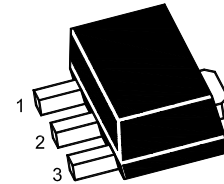


Plastic-Encapsulate Transistors

TRANSISTOR (PNP)

FEATURE

- High voltage
- Large continuous collector current capability



1.Base 2.Collector 3.Emitter
SOT-89 Plastic Package

MARKING: 1013

MAXIMUM RATINGS ($T_a=25^\circ\text{C}$ unless otherwise noted)

| Symbol | Parameter | Value | Unit |
|-----------------|---|----------|--------------------|
| V_{CBO} | Collector-Base Voltage | -160 | V |
| V_{CEO} | Collector-Emitter Voltage | -160 | V |
| V_{EBO} | Emitter-Base Voltage | -6 | V |
| I_C | Collector Current -Continuous | -1 | A |
| P_C | Collector Power Dissipation | 0.5 | W |
| T_j | Junction Temperature | 150 | $^\circ\text{C}$ |
| T_{stg} | Storage Temperature | -55~+150 | $^\circ\text{C}$ |
| $R_{\theta JA}$ | Thermal Resistance from Junction to Ambient | 250 | $^\circ\text{C/W}$ |

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless otherwise specified)

| Parameter | Symbol | Test conditions | Min | Max | Unit |
|--------------------------------------|---------------|---|------|-------|---------------|
| Collector-base breakdown voltage | $V_{(BR)CBO}$ | $I_C=-100\mu\text{A}$, $I_E=0$ | -160 | | V |
| Collector-emitter breakdown voltage | $V_{(BR)CEO}$ | $I_C=-1\text{mA}$, $I_B=0$ | -160 | | V |
| Emitter-base breakdown voltage | $V_{(BR)EBO}$ | $I_E=-10\mu\text{A}$, $I_C=0$ | -6 | | V |
| Collector cut-off current | I_{CBO} | $V_{CB}=-150\text{V}$, $I_E=0$ | | -1 | μA |
| Emitter cut-off current | I_{EBO} | $V_{EB}=-6\text{V}$, $I_C=0$ | | -1 | μA |
| DC current gain | h_{FE} | $V_{CE}=-5\text{V}$, $I_C=-200\text{mA}$ | 60 | 320 | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C=-500\text{mA}$, $I_B=-50\text{mA}$ | | -1.5 | V |
| Base-emitter voltage | V_{BE} | $I_C=-5\text{mA}$, $V_{CE}=-5\text{V}$ | | -0.75 | V |
| Transition frequency | f_T | $V_{CE}=-5\text{V}$, $I_C=-200\text{mA}$ | 15 | | MHz |

CLASSIFICATION OF h_{FE}

| Rank | R | O | Y |
|-------|--------|---------|---------|
| Range | 60-120 | 100-200 | 160-320 |

SOT-89 PACKAGE OUTLINE

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